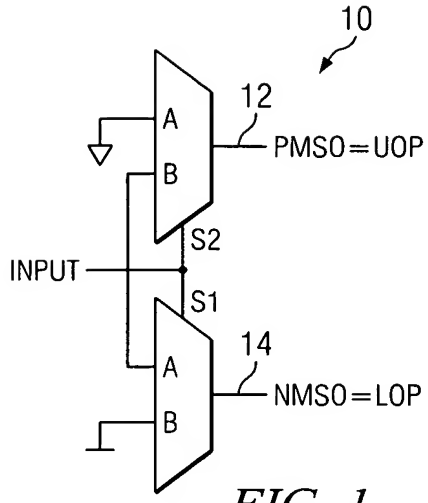


FIG. 1

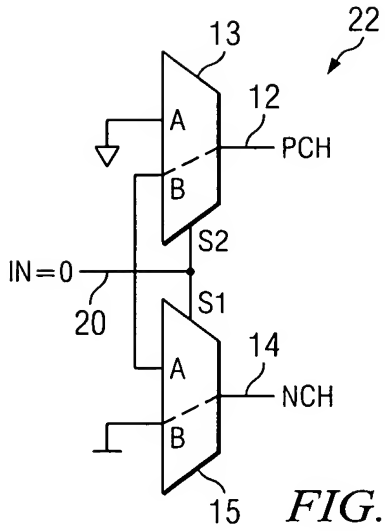


FIG. 2a

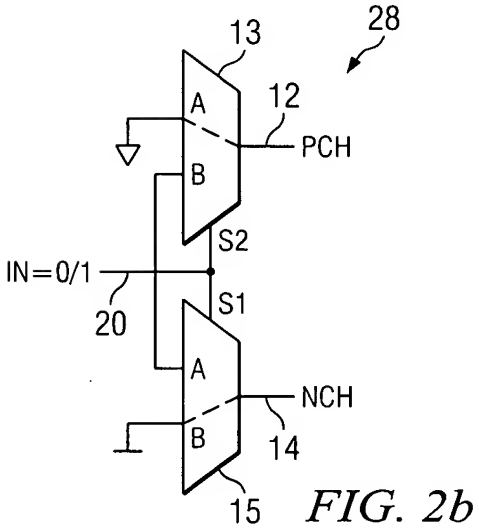


FIG. 2b

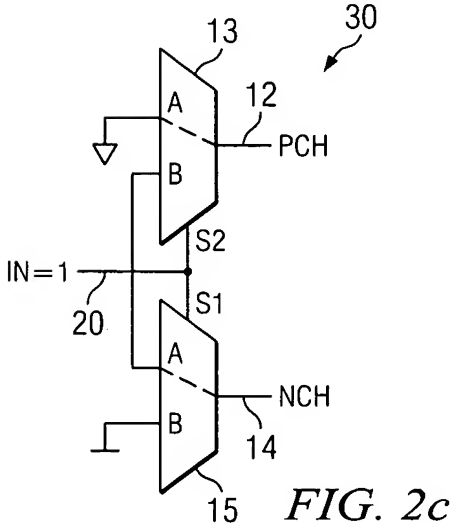


FIG. 2c

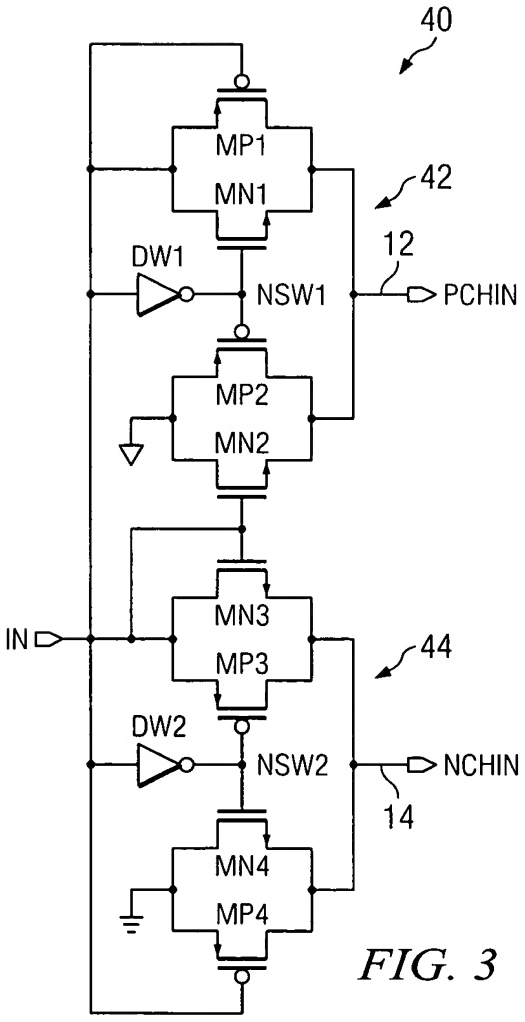


FIG. 3

FIG. 4

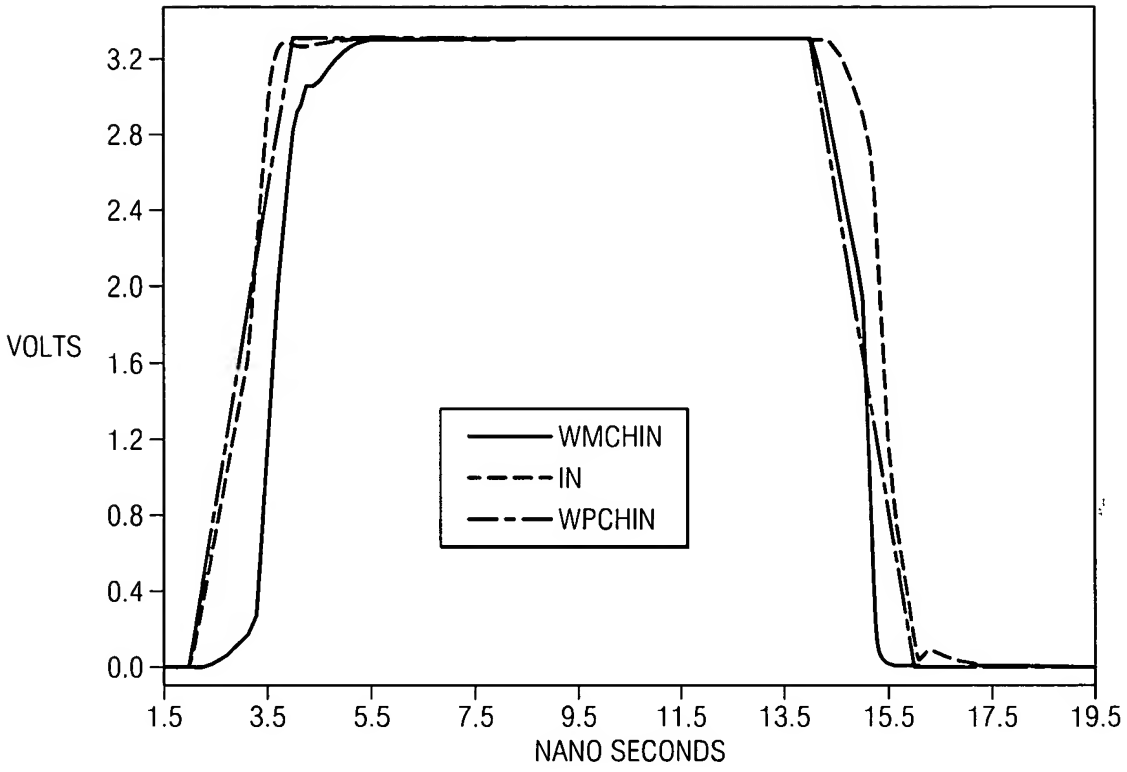


FIG. 5

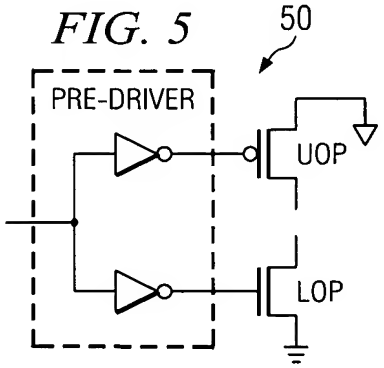


FIG. 7

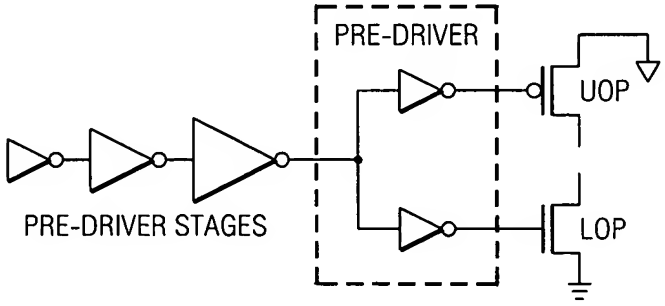
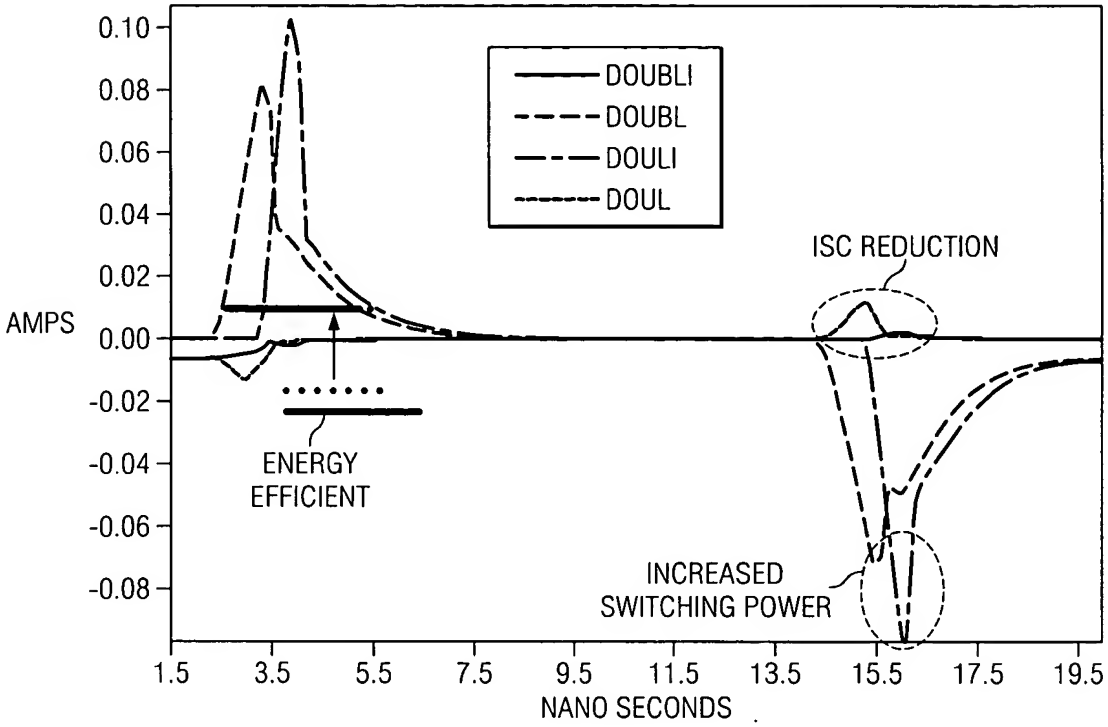


FIG. 6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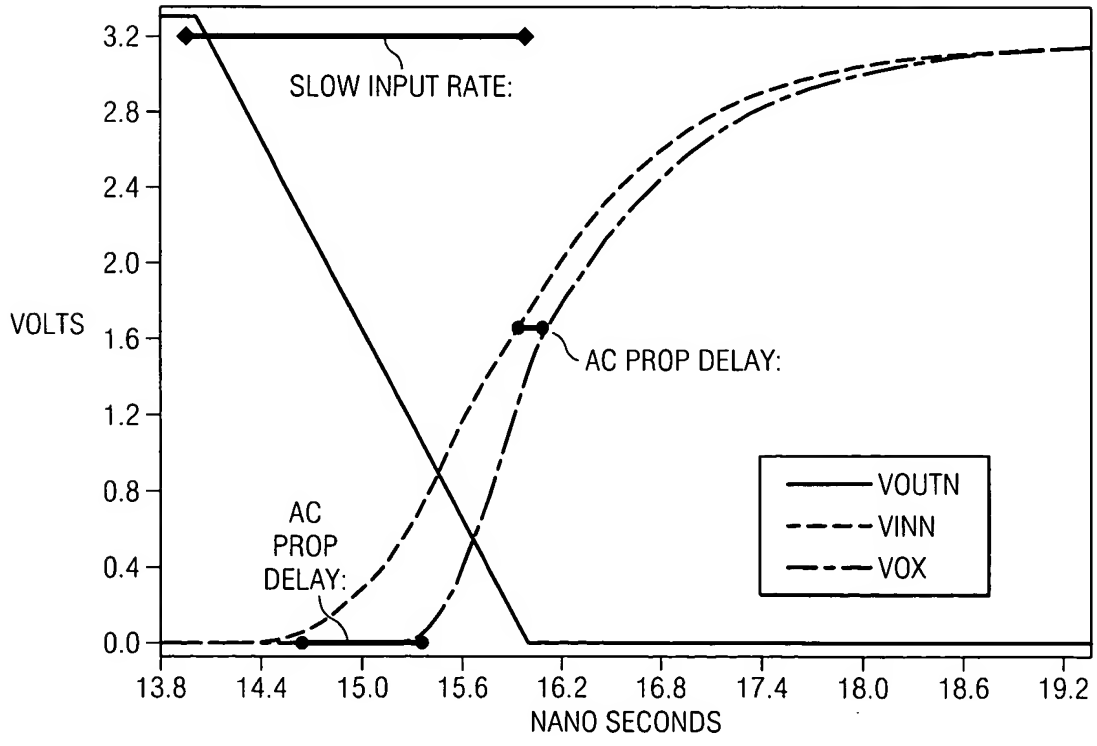
0.06
0.04
0.02
0.00
-0.02
-0.04
-0.06
-0.08
AMPS
DOUBLI
DOUBL
DOULI
DOUL
ISC REDUCTION
ENERGY
EFFICIENT
INCREASED
SWITCHING POWER
1.5
3.5
5.5
7.5
9.5
11.5
13.5
15.5
17.5
19.5
NANO SECONDS

FIG. 8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2.8
2.4
2.0
1.6
1.2
0.8
0.4
0.0
VOLTS
SLOW INPUT RATE:
AC PROP DELAY:
AC
PROP
DELAY:
VOUTN
VINN
VOX
13.8
14.4
15.0
15.6
16.2
16.8
17.4
18.0
18.6
19.2
NANO SECONDS